

# Pratham Gupta

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## EDUCATION

Thapar Institute of Engineering and Technology

Patiala, Punjab

Bachelor's in Engineering in Computer Science and Engineering

Graduation Date: Jun2024

## TECHNICAL SKILLS

**Languages :** Java, SQL, JavaScript, TypeScript (ReactTS), HTML, CSS, OOP Concepts, Linux.

**Technologies :** Spring Boot, REST API, Hibernate, Spring JDBC, Maven, Apache Camel, Apache Kafka, MVC Architecture, JUnit, MQ.

**Tools :** Git, MySQL, Spring Consul, Kafka, NoSQL, VS code, STS, AWS, ReactTS, CI/CD pipeline, Jenkins, Kubernetes.

## WORK EXPERIENCE

Infosys

Bangalore, Karnataka

Specialist Programmer

Aug 2024 - Present

- Contributed to a Government TDS (Tax Deducted at Source) project by enhancing the Processing module to efficiently handle lakhs of PAN and TAN-based statements, streamlining data processing and improving operational accuracy.
- Refactored legacy stored-procedure-based architecture into Spring Boot microservices, enhancing scalability, maintainability, and system availability.
- Implemented multithreading using ThreadPoolExecutor and ExecutorService to process multiple statements in parallel, significantly improving throughput.
- Utilized Apache Camel (Java DSL) to build and manage integration routes for accessing various endpoints and facilitating seamless data flow between services.
- Developed Kafka-based pipelines to enable reliable asynchronous communication between microservices..
- Optimized data processing performance to enhance system availability and reduce processing time, and followed Agile methodologies while collaborating with cross-functional teams to deliver business-aligned solutions. Worked with performance monitoring, logging, and diagnostics in production systems.

Hogarth

Gurugram, Haryana

Software Developer - Intern

Jan 2024 - Jul2024

- Enhanced targeted email campaigns for Cien and ThumsUp using HTML, CSS, and JavaScript, resulting in a 5% increase in user interaction.
- Created visually engaging product display pages (PDPs) and banners for Maruti, Lakme, and Ponds utilizing HTML, CSS, and JavaScript to ensure design accuracy and brand consistency.

## PROJECT EXPERIENCE

SmartCharge | Java, SpringBoot, ReactTS, Machine Learning, FlaskAPI

Bangalore, Karnataka

SmartCharge

- Evolved an AI-powered EV trip optimization system that displays real-time estimated wait times at charging and battery swap stations using an XGBoost-based predictive model.
- Built and deployed a Flask API microservice to serve model predictions and provide station wait time data, integrated within a Java-based backend for business logic and API orchestration.
- Integrated a Route Planner that tracks all charging stations along the trip path and selects routes with minimum cumulative wait times.
- Executed path optimization using the Haversine formula to calculate distances and recommend the most efficient travel route.

Networq | Java, SpringBoot, Microservices, REST Services, Spring Consul, MySQL

Bangalore, Karnataka

Networq

- Designed and enhanced the backend using Spring Boot and Microservices Architecture, building scalable RESTful APIs to manage connections, posts, and job applications.
- Enforced pagination and filtering mechanisms for optimized data retrieval and improved user experience.
- Used WebClient for seamless inter-service communication and performed direct database interactions using JDBC for performance optimization.
- Applied Spring Cloud Gateway for routing, load balancing, and service discovery, improving system scalability and availability.